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ON

SOME FORMS OF SUDDEN DEATH,

AND

SUDDEN DEATH IN GENERAL.

By ALEX. OGSTON, M.D., Aberdeen.

Table I.—Of 580 cases of sudden death.

Cause of death.		Number.	Percentage.	Remarks.
Drowning		98	16.89	
Drowning Wounds and injuries		87	14.99	
Suffocation		50	8.62	16 of these in new-born children.
Pneumonia		49	8.44	
Apoplexy		43	7.41	3 of these in new-born children.
Still-birth		33	5.68	
Cause undiscoverable		27	4.65	8 of these in adults, chiefly from decomposition, and 19 in new-born children.
Pulmonary apoplexy		23	3.96	
		23	3.96	1 of these in a new-born child.
Hanging		17	2.93	
Thrombosis		14	2.41	
		12	2.06	
Ancurysm		12	2.06	
Exposure to cold .		12	2.06	
Œdema of the lungs			1.72	
Encephalitis and brain of	lisease	9	1.55	
Fatty heart			1.55	
Mechanical heart-disease			1.20	
Peritonitis		5	.86	
Rupture of the heart			•68	
Meningitis			.51	
			•51	
Childbed diseases .			•51	
			•51	
Hydropbobia			•34	
Burns			•34	
Hydrocephalus .			.34	
Hæmoptysis			*34	
			.34	
			'34	
			'34	
Cellulitis		1	17	

Table I (continued) .- Of 580 cases of sudden death

Cause of death.			 •	Number.	Percentage.	Remarks.
Phthisis .				1	·17	
Cholera .				1	17	
Liver disease				1	1 .17	
Pericarditis				1	17	
4.7 4.4			.	1	17	
Ulceration of				1	-17	
Hæmatemesis				1	17	
Enteric fever				1	.17	
Old Age.				1	•17	
				580	99.89	

Table II.—Of 326 cases of sudden death occurring under ordinary circumstances.

Cause of death.		Number.	Percentage.	Remarks.
Suffocation		50	15:337	16 of these in new-born children.
Pneumonia		49	15.030	
Apoplexy		43	13.190	3 of these in new-born children.
Still-birth		33	10.122	0111241 0114
Cause undiscoverable		27	8.282	8 of these in children and adults, chicfly from decomposition, and 19 in new-born children.
Pulmonary apoplexy		23	7.055	new-born emigren.
Thrombosis of heart and	main			
blood-vessels .		14	4.294	
Exposure to cold .		12	3.681	
Anenrysm		12	3.681	
Œdema of the lungs		10	3.067	
Encephalitis and brain d	lisease	9	2.760	
Fatty heart		9	2.760	
Mechanical heart disease		7	2.147	
Peritonitis		5	1.533	
Rupture of the heart		4	1.227	
Arachnitis and meningiti		3	•920	
Bronchitis		3	•920	
Hydrocephalus .		2	•613	
C11 11		2	•613	
Hæmoptysis		2	•613	
Phthisis		1	307	
Cholera		1	•307	
Liver disease		1	307	
Pericarditis		1.	•307	
Ulccration of intestines		1	•307	
Hæmatemesis .		1	307	
Old age		1	307	
		326	99.994	

 ${\it Table 1II.-Of cases of Sudden Death}$

					1
No.	Age.	Sex.	Cause of Death.	Stage and Character of Pneumonia.	Seat and extent of Pneu- monia.
]	Adult	M.	Pneumonia	Not given	Not given
2		F.	Aleoholie poisoning		
5					Double, partial
		M.	Pneumonia	Gray hepatisation	Right, total
4	0 11 00110	M.	Do.	Red hepatisation	Double, partial
15	Adult	F.	Do.	Do.	Left, total; right, partial
- 0		F.	Drowning	Do.	Double, total
7		M.	Pneumonia	Do.	Left, partial
8	Not given	F.	Do.	Do.	Do.
1 8	Adult	M.	Do.	Gray hepatisation	Right, total; left, partial
10	12	M.	Thrombosis	Red hepatisation	Double, partial
	Į.			•	
11	. 82	M.	Pneumonia	Do.	Left, total
12	70	M.	Do.	Do.	Right, total
			1		8 /
13	38	F.	Do.	Do.	Do.
14	Adult	F.	Do.	Do.	Double, partial
15		M.	Do.	Do.	Double, total
	1				Bouble, total
16	Do.	F.	Do.	Do.	Right, total; left, partial
17		M.	Suffocation in	Do.	Right, partial
			smoke	170.	Torgho, partiar
18	Do.	M.	Pneumonia	. Do.	Loft nortial
19		M.	Do.	Tubereular hepa-	Left, partial
1.0	Hot given	111.	170.		Double, total
20	Adult	F.	Do.	tisation	D: 14 (: 1
120	Addit	Γ.	170.	Red hepatisation	Right, partial
21	Do.	F.	Apoplexy	Do.	T - Ch/'-1
22		F.	Pneumonia		Left, partial
				$\mathbf{D_0}$.	Left, total
23	Not given	F.	Do.	Do.	Right, partial
0.4	D.	13	n.	D	20 12
24	Do.	F.	Do.	Do.	Double, partial
25	Do.	M.	Manifest and the	D	70.11
20	Do.	IVI.	Meningitis	Do.	Right, partial
26	4.314	703	(33 6.13	70	
20	Adult	F.	Œdema of the	Do.	Left, partial
			lungs		
0-	ъ	-	TT		
27	Do.	F.	Hypertrophy of	Do.	Double, partial
100	ъ	36	heart		_
28	Do.	M.	Pneumonia	Do.	Do.
29	Do.	F.	Exposure to cold	Do.	Right, total
30	Do.	F.	Pueumonia	Gray hepatisation	Do.
31	Do.	М.	Do.	Red and gray hepa-	Right, total; left, partial
1				tisation	
32	Not given	M.	Do.	Red hepatisation	Right, total
33	Adult	M.	Do.	Do.	Left, partial
1					
1					

¹ In this and the following Tables, old adhesions of the pleuræ

where Pneumonia is present.

	Pleuræ¹ and Peri- cardium.	State of Heart and Valves.	Distribution and Character of Blood in the Heart.	Remarks.
	Not giveu	Not given	Not given	
	Healthy	Healthy	Clotted, equal on both sides	
	Right pleurisy	Do. Do.	Do. Only on the right side	
	Healthy Bight planning	Valvular dis-	Not given	Mitral and trieuspid
	Right pleurisy	ease	, rior given	vegetations.
	Healthy	Healthy	Only on the right side	vegebiolis.
	Right pleurisy	Do.	Equal on both sides	*
	Left pleurisy	Do.	Chiefly on the right side	
	Double pleurisy	Do.	Do.	
	Healthy	Do.	Thrombosis, chiefly on right	
ı			side	
	Left pleurisy	Do.	Fluid, equal on both sides	
Į	Healthy	Do.	Only on right side	Thrombosis of right
	Dt 14 1 1	70	37.4	heart.
١	Right pleurisy	Do.	Not given	70
	Double pleurisy	Do.	Chiefly on the right side	Do.
	Pericarditis	Hypertrophy of heart	Do.	Tricuspid valve fenes-
	Healthy	Healthy	Do.	trated.
	Pleuræ and peri-	Do.	Do.	
i	cardium red	100.	Б0.	
ı	Healthy	Do.	Do.	
	Do.	Do.	Only on the right side	
	Double pleurisy	Do.	Not given	Pericarditis also pre-
				sent.
1	Healthy	Do.	Do.	
ı	Do.	Do.	Fluid, chiefly on right side	
1	Do.	Do.	Equal on both sides	Blood clotted in left,
	Do.	Do.	Chiefly on the right side	fluid in right heart. Thrombus in pulmon-
	Do.	Do.	Do.	ary artery.
	D0.	ъ.	<i>D</i> 0.	Thrombus in the right heart.
	Fluid in left	Fatty heart,	Clotted, chiefly on right side	Tubercular mass in
	pleura	aud valv. dis.	Ozobody chickly on right side	lower lobe of left
	produc	10177 0101		lung.
	Healthy	Heart large;	Fluid, chiefly on right side	
	•	valves healthy	, , ,	
	Do.	Heart fatty	Fluid, equal on both sides	
	Do.	Healthy	Thrombosis on both sides	Tubcrcles in apex of
				right lung.
	Right pleurisy	Do.	Thrombosis on right side	
	Healthy	Do.	Fluid, equal on both sides	
	Right planning	Do.	Fluid chiefly an night side	
	Right plcurisy Healthy	Heart fatty	Fluid, chiefly on right side Empty of blood	Extensive pulmonary
	Heating	ireard radby	Zarpoy or blood	apoplexy of right

are disregarded, and such pleuræ are noted as healthy.

	1		<u> </u>	C4	Contained Robert & C.D.
No.	Age.	Sex.	Cause of Death.	Stage and Character of Pneumonia.	Seat and Extent of Pneu- monia.
34	Adult	M.	Pnenmonia	Red hepatisation	Double, partial
35	Child	M.	Do.	Do.	Do.
36	Do.	M.	Do.	Do.	Đo.
37	Adult	M.	Exposnre to cold	Do.	Left, partial
38	Infant	M.	Pneumonia	Do.	Double, partial
39	Adnlt	F.	Do.	Do.	Right, total; left, partial
40	Do.	M.	Do.	Do.	Left, partial
41	Do.	F.	Do.	Gray hepatisation	Right, total; left, partial
42	Do.	F.	Do.	Red hepatisation	Left, partial
43	Do.	M.	Do.	Do.	Double, partial
44	Do.	F.	Do.	Gray hepatisation	Left, total; right, partial
45	4.7	F.	Do.	Red hepatisation	Donble, total
46	Adult	M.	Suffocation	Do.	Donble, partial
47	Not giveu	M.	Softening of the brain	Do.	Left, partial
48	Adult	M.	Pneumouia	Do.	Donble, total
49	Do.	F.	Do.	Do.	Left, total
50 51 52 53	Do. Do. Do. 65	F. F. M. M.	Do. Do. Do. Aneurism	Do. Do. Do. Gray hepatisation	Left, total; right, partial Double, partial Double, total Right, total
54 55	Adnlt 10 weeks	M. F.	Apoplexy Pueumonia	Red hepatisation	Right, total Double, total
56	62	М.	Do.	Do.	Left, partial
57	Adult	F.	Do.	Do.	Donble, total
58	2	M.	Do.	Do.	Left, total; right, partial
59	Adult	F.	Do.	Do.	Do.
60	40	M.	Pulmonary apo- plexy	Do.	Right, partial
61	58	М.	Apoplexy	Do.	Double, partial
62	75	M.	Pneumonia	Gray hepatisation	Right, partial
63	58	F.	Exposure to cold	Red hepatisation	Double, partial
64	45	F.	Pneumonia	Do.	Donble, total
65	47	F.	Do.	Red and gray hepa- tisation	Donble, partial
66	65	M.	Do.	Red hepatisation	Do.
671	20	F.	Œdema of the lungs	Do.	Left, partial
	1	1	lungs		

	Pleuræl and Peri- eardium.	State of Heart and Valves.	Distribution and Character of Blood in the Heart.	Remarks.
	Healthy .	Healthy	Fluid, chicfly on right side	
	Do. '	Do. Do.	Thrombosis of right side Fluid, chiefly ou right side	Thrombus in right heart.
	Do. ·	Do.	Equal and excessive on both sides	Thrombi on both sides of heart.
	Do.	Do.	Chiefly on the right side	Thrombus in right heart.
	Do. Double pleurisy		Fluid, chiefly on right side Do.	25.00
	Healthy	disease Healthy	Chicfly ou the right side	Blood clotted in right, fluid in left heart.
	Do.	Heart pale and flabby	Fluid, chiefly on right side	nura in leio neart.
}	Do. Do.	Heart fatty Do.	Do. Do.	
- 1	Double pleurisy		Semi-fluid, chiefly on right side	
	Healthy	Do.	Fluid, chiefly on right side	
	Do.	Do.	Do.	
	Do.	Do.	Do.	
	Do.	Do.	Equal on both sides	Pulmonary apoplexy of lower two lobes right lung. Throm- bosis of heart.
	Do.	Do.	Semi-fluid, chiefly on right side	bosis of fiear v.
	Do.	Do.	Fluid, equal ou both sides	
	Do.	Do.	Fluid, entirely on right side	
	Do.	Do.	Fluid, scanty on both sides	Rupture of iliac aneurism behind peritoneum.
-	Do.	Do.	Fluid, chiefly on right side	
	Do.	Do.	Fluid, equal on both sides	
	Do.	Aort. and mit. disease	Clotted, equal on both sides	Heart fatty.
-	Do.	Heart fatty	Semi-fluid, chiefly on right side	
1	Do.	Healthy	Clotted, chiefly on right side	
1	Do.	Heart fatty	Do.	Aortic and mitral discase.
Ì	Do.	Healthy	Fluid, equal on both sides	
i I	Do.	Heart fatty	Only on the right side	Thrombosis of right heart.
1	Do.	Do.	Chiefly ou the right side	Thrombosis of the heart.
1	Do.	Healthy	Abundant on both sides	
-	Do.	Heart fatty	Fluid, chiefly on right side	
	Do.	Healthy	Clotted, chiefly on right side	
	Do. Do.	Heart fatty Do.	Semi-fluid, equal on both sides Fluid, equal on both sides	Do.

Table IV.—Pulmonary Apoplexy.

Appearances in Heart and Blood-vessels.	Blood chieffy on right side. Blood equal on both sides. Blood chieffy on right side. Thrombus in right heart. Blood fluid, chieffy on right side. Do. Enlarged heart. Fatty heart, blood chieffy on right side. Fatty heart, blood clotted, chieffy on right	side. Heart empty of blood. Thrombosis of right heart and pulmonary	Fatty heart. Fatty heart. Blood chiefly on right side. Blood duid, chiefly on right side. Heart fatty, with little blood. Heart empty. Blood fluid, chiefly on right side.	Blood fluid, only ou right side. Heart fatty. Blood fluid, chiefly on right	Thrombosis on both sides of the heart. Blood fluid, only on right side. Heart fatty. Blood chiefly on right side. Blood fluid, chiefly on right side. Blood clotted, only on right side. Blood fluid, equal on both sides. Blood fluid, chiefly on right side. Thrombosis of right heart.
Complications of Lungs, Pleuræ, and Pericardium.	None Do. Do. Pleurisy, hemothorax None Pleurisy, double Adherent pericardium None Do.	Do. Œdema of lungs	None Do. Do. Gelema of lungs None Do. Do.	Edema of lungs None	Red hepatisation None Do. Gdema of lungs Rcd hepatisation Nonc Gdema and hep. of lungs Thrombosis of right sides Blood fluid, only on right Blood fluid, chicfly on right Blood fluid, equal on both Blood fluid, chicfly on right
Seat and Extent of Pulmonary Apoplexy.	Left, total Left, partial Double, partial Right, partial Left, partial Left, partial Left, partial Left, pattial	Left, total Left, partial	Double, total Right, total; left, partial Double, partial Do. Right, partial Right, total Double, partial	Right, total; left, partial	Right, partial Double, total Left, total; right, partial Right, total; left, partial Do. Do. Double, partial Left, total; right, partial
Cause of Death.	Apoplexy Injuries of chest Pulmonary apoplexy Stabbing Fracture of skull Hæmoptysis Pulmonary apoplexy Do.	Peritonitis Thromhosis	Pulmonary apoplexy Do. Do. Do. Po. Po. Pulmonary apoplexy Do. Fracture of skull	Pulmonary apoplexy Do.	Pulmonary apoplexy Do. Do. Do. Do. Do. Do. Evacture of skull
Age.	56 39 Adult 10 Adult Do. Do. Unknown	Adult 40	Adult Do. 16 Adult Do. Do.	Do.	Do. Do. 24 75 Adult 40 50 39
No.	98466789 9878. NN. 1988. NN. 1988.	10 N.	NEFERENCE		NEWNER NEWNER
-10		21	12 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	्रा ला	22 23 23 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25

Blood fluid, seanty on both sides. Blood fluid, equal on both sides.	Thrombosis of right heart.	Blood nuid, enteny on right stac.	Heart cipty of blood.	Heart latty, Dioothium, equation both sines.	INO BIOOU IN the Heart.
None Do.	Do.	Do.	Do.	Do.	μο.
Double, partial		Double, total	Left, total; right, partial	Left, partial	Left, total
Pulmonary apoplexy	Do.	Fracture of skull	Pulmonary apoplexy	Fatty heart	Pulmonary apoplexy
67	56 56	37	63	73	Adult
	32 M.				

Table V.—Thrombosis of the Heart and Main Blood-vessels.

Condition of Lungs.	Congested and hepatised posteriorly. Anæmic. Normal. Right lung hepatised and congested. Left lung congested.	Normal. Lower lobes hepatised. Remainder cedematous.	Normal. Do.	Do. Gelematous. Mitral and trieusp. Congested. Left lung ædematous.	Pulmonary apoplexy of right lower lohe.	Tubercular. Normal. Do. Lower lobes hepatised. Remainder	empnysematous. Congested and emphysematous.
State of Cardiac Valves.	Normal Do. Do. Do.	Do.	Do.	Do. Mitral and trieusp.	Normal	 0000	Do.
State of Heart.	Healthy Do. Do. Do.	Do.	Do.	Do.	Do.	D. D. D.	Do.
Situation of Thrombus.	Both sides and their vessels Right cavities Right veutriele Right cavities	Cavities on both sides Right cavities	Do.	Do. Do.	Do.	Do. Do. Left auricle Pulmonary artery	Right vessels and cavities
Cause of Death.	Thrombosis Rupture of liver Sorcs after injuries Pneumonia	Thrombosis Pneumonia	Searlatina after injuries	Injuries of larynx Thrombosis	Stab in chest and	liver Pericarditis Erysipelas after injuries Hæmorrhage from wounds Pneumonia	Arsenical poisoning
Sex.	N.E.E.N.	N.	N.	EE	M.	NE E	Fi
Age.	12 73 70	28 Adult	Do.	Adult Do.	10	12 Not given 13 Adult 14 Do. 15 Not given	16 Adult
.0 N	1-0100-4	70 O	1-0	000	=	5155	91

Condition of Lungs.	c. 1.	ပံ					Congested and ædematous.	Congested. Left lung ædematous.	hepatised.	ted.		Inna hone fised	Right lung adematous. Pulmonary	apoptexy of left lower lobe. Left lung congested. Right lung	hepatised and ædematous.	Much ædematous and congested.		Pulmonary apoplexy of right, and	back of left lung. ormal.		Middle right, and upper left lobe bepatised. Remainder ædematous.
	Anæmic. Normal.	Anæmi	Normal.		Do.		Conges	Conges	hepa	Congested.	Normal.	Jung	Right	apor Left 1	hepa	Much	Do.	Pulmo	Normal.	Do.	Middle bepa
State of Cardiac Valves.	Normal Anæmic Aortic and tricusp. Normal.	Mitral and tricusp. Anamic.	Normal	Do.	100.	Do.	Do.	Do.	3	Do.	Do.	DO.	Do.	Do.		Aortic bony and	msutherent Normal	Do.	Do.	Do.	Do.
State of Heart.	Healthy Right side	Fatty	Healthy	Do. Fattv	Healthy		Do.	Fatty		Do.	Do.	°	Do.	Do.		Fatty	Do.	Do.	Healthy	Do.	Do.
Situation of Thrombus,	Right cavities Do.	Both sides and their vessels		Cavities on both sides Left cavities	Right vessels and cavities	Right ventricle	Right vessels and cavities	Right cavities Do.		Do.	Do.	Cavines on bonn states	Right vessels and cavities	Do.		Both sides and their vessels	Right cavities	Rigbt vessels and cavities	Left ventricle	Right cavities	Do.
Cause of Death.	Exposure to cold Do.	Do.		Suffocation when in drink Fatty heart		Starvation Phosphorus noisoning	Thrombosis	Do. Meningitis	D	Hypertrophy of the brain	Starvation Dung to sold	nios of aireofver	Thrombosis	Pneumonia	i	Thrombosis	Do.	Pulmonary apoplexy	Aortic aneurism	Apoplexy	Fneumonia
Sex.	H.	E.	됴;		Ei;	Z E	M.	Z Z			Z G	-	E	~	1	Z.	M.	M.		í j	M.
Age.	17 70	83	Adult	Do.	Do.	Child 14	(0)	Adult Not given	0	Do.	12 months	arnny	40	Adult		09	Adult	Do.		Not given	Child
.0 M	17	113	50	<u> </u>	3	77.85	26	25.27	_	53	9 5	70	32	33		3	<u>ස</u> දිරි	36		S 6	60

Lower lobes hepatised. Remainder cedematons.	Lower left lobe hepatised. Emphysematous. Hepatisation of both lungs, except	Normal. Tubercular and adematous. Congested and adematous. Left lung hepatised. Pulmonary	Apopters of right upper roces. Normal. Do. Back parts hepatised. Excessively edematous. Gray hepatisation of right upper lobe.	Celemathus congested, and hepatised behind. 2. Apoplectic depôts. Hepatised behind. Celemathus henatised. Unner lobes	cedematous. (Edematous. Do. Do. Normal. Pulmonary apoplexy of and right middle lobe.	Congested. (Edematous.
Normal	Do.	Do. Do.	Do. Do. Do. Thickened	Normal Do. Do. Mitral and sortic	thickened Normal Do. Do. Do.	Do.
Healthy	Do.	D D O O O O O O O O O O O O O O O O O O	Do. Do. Fatty Healthy Fatty	Healthy Do. Fatty	Healthy Do. Futty Healthy Do.	Fatty Healthy
Right cavities	Both sides and their vessels Cavities on both sides Right cavities	Do. Do. Do. Cavities on both sides	Do. Right cavities Do. Do. Cavities on both sides	Right cavities Do. Both auricles and the vessels Roth sides on a their reseals	Pulmonary artery Right auricle Both sides and their vessels Left auricle Right cavities	Both sides and their vessels Do.
Pneumonia	Exposurc to cold Encephalitis Pncumonia	Cut throat Thrombosis Fracture of the skull Lung disease. Pneumonia	Poisoning with laurel Arachnitis Apoplexy Thrombosis Preumonia	skull	Fracture of the skull Drowning Thrombosis Exposure to cold Pulmonary apoplexy	Thrombosis Do.
M.	z z z	*****	KAKAA	KKK K	e zaza	EX.
Child	Adult Do. Iufant	Adult Do. 35 Adult	45 25 58 Adult 75	ර ගින් ම ගෙන ම	6 7 7 7 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8	73 68
9	यं श स	1995	S 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 10 11 10 10 11 10 11 10 11	910000	03.57 - 03.77

TABLE VI.—

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No.	Age.	Sex.	Cause of Death.	Situation of Œdema.	Lung Complications.	Pleural Complications.
1	6 weeks	M.	Pneumonia	Double	Hepatisation	None
$\frac{1}{2}$		F.	Do.	Double Do.	Do.	Pleurisy. Con-
	Addit	1.		D0.	100.	taining fluid 1
3	T) o	M.	Do.	Diabt	Do.	Right planning
				Right		Right pleurisy
4	- 0	F.	Do.	Double	Do.	Left pleurisy
5		M.	Do.	Left	Do.	Double pleurisy
6	76	M.	Fatty heart	Double	None	Serum in right
		3.5	D .	7. 1.	77	pleura
7	70	M.	Pneumonia	Right	Hepatisation	None
10	4.7.3.	77	T.	D 11	70	D 11 1
8		F.	Do.	Double	Do.	Double plenrisy
9	Do.	M.	Do.	Do.	Do.	None
10		F.	Injuries	Do.	None	Do.
11	Do.	F.	Thrombosis	Left	Do.	Do.
١.						
12	Not given	F.	Brain disease	Double	Do.	Do.
13	Adult	F.	Pueumonia	Right	Hepatisation	Pleurisy. Con-
						taining fluid
14	3 months	F.	Do.	Double	Do.	None
15	Adult	M.	Fraetured ribs	Right	None	Hæmothorax
16	D_0 .	F.	Œdema of lungs	Double	Do.	Noue
17	Do.	F.	Suffocation	Do.	Do.	Do.
18	Do.	M.	Fracture of skull	Do.	Do.	Do.
19	Do.	M.	Apoplexy	Left	Do.	Do.
20	Do.	M.	Œdema of lungs	Double	Do.	Do.
21	Child	F.	Do.	Do.	Do.	Do.
22	Adult	M.	Do.	Do.	Do.	Do.
23	3	M.	Thrombosis	D_0 .	Do.	Do.
24	Adult	M.	Do.	Left	Do.	Do.
25	Do.	M.	Poisoning by morphia	Double	Do.	Do.
26	Do.	F.	Edema of lungs	Do.	Hepatisation	Fluid in pleuræ
			8.		•	
27	Do.	F.	Pericarditis	Do.	Tubercular	None
				-	consolidation	
28	Do.	M.	Pneumonia	Do.	Hepatisation	Do.
29	40	F.	Thrombosis	Right	Pulm. apoplexy	Do.
30	Adult	F.	Pneumonia	Do.	Hepatisation	Do.
31	Do.	M.	Hypertrophy of heart	Do.	None	Do.
	200	2.2.	Lag por or oping or nome	20.	21020	200
32	60	M.	Thrombosis	Double	Do.	Do.
33	Adult	M.	Do.	Do.	Do.	Do.
34	Do.	M.	Pneumonia	Right	Hepatisation	Do.
35	Infant	F.	Bronehitis	Double	None	Do.
36	Not given	M.	Pueumonia	Do.	Hepatisation	Pleurisy, con-
100	Trot Siven	214.0	2 dedilloma	10.	Liephorsauton	taining fluid
37	Adult	M.	Fatty heart	Do.	None	None
38	Do.	M.	Pacty near Pneumonia	Left Left	Hepat. and	Do.
90	10.	101.	псишоша	17610	pulm. apoplexy	20.
39	Do.	M.	Do.	Double	Hepatisation	Do.
100	100.	Ita.	D0.	Double	racpaulsation	23.

¹ Serum in the pleuræ or pericardium

Œdema of the Lungs.

State of Heart and Pericardium.	State of Blood in the Heart.	Distribution of Blood in Heart.	State of Cardiae Valves.
Healthy.	Not given	Only on right side	Healthy.
Dilatation of heart	Do.	Not given	Thickened mitral
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Healthy	Fluid	Equal on both sides	Healthy.
Do.	Clotted and fluid	Chiefly on left side	Do.
Do.	Clotted	Chiefly on right side	Do.
Heart large & fatty	· None	Both sides empty	Do.
120020 300		1 3	•
Serum in pericard.	Fluid and thrombosis	Only on right side	Bony points in
		v	mitral.
Healthy	Thrombosis	Equal on both sides	Healthy.
Serum in pericard.	Clotted	Chiefly on right side	D_0 .
Healthy	Thrombosis	Only on right side.	Do.
Do.	Fluid and thrombosis	Chiefly on right side	Thickened mitral
			and tricuspid.
Do.	Fluid	Do.	Healthy.
Pericarditis	Not given	Not given	Do.
Serum in pericard.	Fluid	Chiefly on right side	Do.
Healthy	Clotted	Equal on both sides	Do.
Do.	Fluid	Chiefly on right side	Do.
Do.	Do.	D_0 .	Do.
Do.	Do.	Only on right side	Do.
Do.	Do.	Chiefly on right side	Do.
Do.	Do.	Only on right side	Insufficient aortic
D _a	Ъ.	D.	valves.
Do.	Do. Do.	Do.	Healthy.
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2 Oriona dibio	274.4	20.	valves.
Heart fatty	Do.	Equal on both sides	Healthy.
Healthy	Fluid and thrombosis	Both sides full	Do.
Do.	Do.	Chiefly on right side	D_0
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•		*	and aortic.
Heart fatty	Clot and thrombosis	Chiefly on right side	Insufficient aortic.
Do.	Fluid and thrombosis	Do.	Healthy.
Healthy	Fluid	Equal on both sides	Do.
Do.	Clotted and fluid	Do.	Do.
Do.	Fluid	Chiefly on right side	Do.
77		**	-
Heart fatty	Do.	Equal on both sides	Do.
Do.	Do.	Both sides empty	Calcarcous aortic
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is mentioned only when considerable.

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Adult	Do. Do. Do. Do. Do.
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44	Do. Do. Do.
15	Do. Do.
146	
47	Do.
1	
49	Do.
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Do. F. Pneumonia Right Do.	Do.
52 Do. F. Do.	Do.
53 Do. M. Do.	Do.
54 Do. M. Pulmonary apoplexy Left Pulm. apoplexy Hepatisation Do. Do. 55 65 M. Rup. of iliuc aneurism Apoplexy Do. Do. 57 10 weeks F. Pneumonia Double Do. None Do. None	Do.
55 65 M. Rup. of iliac aneurism Right Hepatisation Do. Do.	Do.
56 Adult M. Apoplexy Do. Do.	Do.
57 10 weeks F. Pneumonia Double Do. None	Do.
58 5 weeks M. Smothering Do. None	150.
58 5 weeks M. Smothering Do. None	Do.
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ob ob incumonia po. Hopatisation	Do.
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63 75 M. Pneumonia Do. Hepatisation	None
64 39 M. Fracture of skull Do. Hepat. and pulm. apoplexy	Do.
65 60 F. Fatty heart Do. Nono	Do.
66 65 F. Old age Right Do.	Do.
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67 84 M. Thrombosis Double Do.	Do.
68 47 F. Pneumonia Left Hepatisation	Do.
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69 65 M. Do. Double Do.	Do.
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74 68 M. Do. Do. Do.	Do.
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The causation of sudden death, although a subject to which a good deal of interest attaches, has hardly received from pathologists the attention it descrives; and consequently, while our knowledge of morbid anatomy is extending at a rapid rate, this particular province has still much unexplained and mysterious about it. That this should be so is the result of several circumstances. In the first place, the inquiry into the causes and modes of death is at no time an easy task; and, in the second place, the pathologist, to whom the medical world naturally turns for assistance, is not in a position to advance or to acquire much information bearing on this question. In our hospitals, institutions to which pathology owes its very existence as a science, the study of sudden and unexpected death is out of the question; such deaths occur in them only exceptionally, and the main aim of hospital autopsies is therefore almost exclusively the study of pathological lesions as connected with and suggested by

the history of the individual obtained during life.

The position of the private practitioner contrasts favorably with that of the morbid anatomist in respect of opportunities for acquiring a practical knowledge bearing on this subject, and did the general practitioner avail himself of even a limited number of these opportunities, we would not have to complain of deficiency of information on this topic. But, unfortunately, in almost every instance, these are allowed to slip away, and to the lips of the physician called to the corpse of one who has suddenly and unexpectedly expired, the stcreetyped verdict—heart disease or apoplexy —instinctively rises,—a verdict which has been, in some form or other, employed from time immemorial by the judicious practitioner, glad of a broad cloak for his ignorance, and an escape from the awkward questioning of the friends. In early times, it is well known, most sudden deaths were set down to the effects of poison, while in later years, the city of refuge for those who have not the courage to say, "I do not know," has unfortunately been rendered nearly impregnable by the discovery of the fatty heart; so that it is not overstrained to say that, among the richer classes at least, it must seem to the uninitiated laity as if no one whose demise has been sudden and unlooked for could enter into his future state otherwise than in one of a very few ways.

All the blame, however, should hardly be thrown on the general practitioner, for indeed he would have his difficulties to contend with did he adopt any other course. To refuse a death certificate until an autopsy was allowed, in the face of the opposition of the relatives, and of the fear of some more unscrupulous rival, would be an act which few indeed would commend; and their scanty applause, even with the addition of an approving conscience, would be but small consolation for the empty pockets such conduct would

entail.

It is hopeless, then, to expect enlightenment on this head from the general practitioner; and the sole other source of information consists in the judicial inquests on cases of sudden death, where the results of these are obtainable. It has therefore been the object, in putting together the above tables and the following remarks upon them, to compare the results furnished by such sources, with the notions, or, at least, the utterances of many who, holding the position of fathers and heads in the profession, are yet most active agents in perverting our registrar's returns to a monstrous extent. Indeed, when regard is had of the multitude of people who are returned, after sudden death, as having succumbed to heart disease and apoplexy, and of children who are rashly supposed to have been "overlain," not to mention other favourite but erroneous hypotheses, it must be confessed that very many columns of these returns are worse than worthless.

In relation to Table I, where the results of 580 cases of sudden death, as disclosed by post-mortom examination, are brought together, some few explanations are necessary. The table is compiled from a series of full records of complete post-mortem examinations in cases of sudden and suspicious death, made with the view of reporting thercon to the Crown authorities. Those cases embrace many deaths which, under usual circumstances, might not have come under the denomination of sudden and suspicious, but it has been deemed better to allow them for the present to retain their position, as they illustrate very well the general run of disease, and prove that many maladies, in themselves almost incapable of remaining unrecognised, under peculiar external circumstances, or possessing an unusually latent character, contribute their mite towards filling up the catalogue of sudden deaths. In glancing over the list, for instance, it cannot but excite surprise to see such maladies as enteric fever, scarlatina, erysipelas, starvation, &c., figuring among the causes of sudden death, and it would require an account of the peculiarities of each particular case, an undertaking which space forbids us entering upon, to vindicate for such diseases the position they are made to occupy. But the fact remains, that such diseases do, under exceptional circumstances, destroy life in such a manner as to deserve being classed among the others in the above table, hydrophobia being, perhaps, the only one which ought properly to have been omitted from it.

Besides these more striking diseases, there are a number of others which could not have been expected to occupy so prominent a place as they hold; diseases which, though generally running their course under the observation of the physician, do sometimes progress in so latent and insidious a manner that their existence remains unknown and unsuspected by the individual himself, and the autopsy gives the first hint of their having been present. Among these may be

mentioned pneumonia, cellulitis, meningitis, encephalitis, cholera, liver disease, hydrocephalus, peritonitis, pericarditis, and bronchitis.

To complete the table, deaths from wounds and injuries, drowning, poisoning, hauging, strangulation, burns, &c., have been retained, although, strictly speaking, they do not belong to eases of death

occurring suddenly under ordinary circumstances.

In Table II, an attempt has been made to reduce the first table of eases more to the level of ordinary experience of sudden death, and to place together merely such instances as would, by most inquirers into the subject, be comprehended under this designation. At the same time it must be remembered that such a thing as an absolute definition of what constitutes an ordinary sudden death is, in the very nature of things, out of the question, and that, in proportion as the subject is regarded from the practical rather than from the theoretical side, the difficulties of drawing a line of demarcation multiply themselves. Hence eases of suffocation have been retained, since this accident, although rare and tolerably obvious to an eyewitness where occuring in adult life, forms a large proportion of the diseases of infancy where the termination of life is sudden and inexplicable. In truth, although the signs during the autopsy are perfectly diagnostic of this occurrence in many of the deaths of young children and even of adults, little or no idea can be formed from the eireumstances or the accounts of the friends, as to the mode in which it had originated.

In the second table, those cases where the symptoms during life, or the marks and appearances on the body after death, or the history of the case, where obtainable, would, with approximate certainty, indicate the agency at work, have all been omitted. Cases of drowning, where the wet clothes, &c., would tell their tale; cases of wounds and injuries, cellulitis, poisoning, hanging and strangulation—where the mark of the cord would remain,—hydrophobia, burns, convulsions, childbed diseases, crysipelas, scarlatina, abortion, and enteric fever, have all been omitted; and if any still retained may seem liable to challenge, it may be urged that numbers of those omitted should by right have been retained, while it should further be borne in mind that the cases must be estimated as they occurred in practice, and not as our notions of probability would suggest

to us.

In the second table, purged and curtailed as it is, we find, still playing a very important part, many diseases which could hardly have been supposed likely to be represented in it, and these are all the more striking, as they preponderate over, or at least rival in importance, other maladies recognised as causes of sudden death. In fact, the two generally recognised causes, heart-disease and apoplexy, sink into the shade when compared with the numbers of pneumonias, brain diseases, &c. Cases of apoplexy stand as 43, or

13 per cent., while pncumonia numbers 49, or 15 per cent. Three cases of apoplexy, too, occurred in new-born children, reducing apoplexy in more advanced years to 40, or 12.270 per cent.; none of the cases of pneumonia occurring in children so young as this. Fatty heart numbers only 9 cases, or 2 per cent., and mechanical morbus cordis only 7 cases, the two forms of heart disease making together 16 cases, or 4.907 per cent., and reaching, if rupture of the

heart is included, 20 cases in all, or 6.134 per cent.

It will be observed that some of the headings embrace diseases as yet hardly recognised by the profession as existing in the form of independent maladies, and which are certainly seldom present to the mind of the physician when reflecting on the mechanism of death,—diseased states, for example, like pulmonary apoplexy, thrombosis, and ædema of the lungs, and which, nevertheless, indicate their frequent occurrence by the magnitude of the figures appended to them, being respectively 23, 14, and 10 in number; but as some of these will be referred to at greater length subsequently, a minute inquiry into their conditions of existence is needless here.

These results show how little in a given case the practitioner can guess what has been the agency at work, and although the cases on which they are based are derived, for the most part, from the poorer classes, the conclusions apply to a very great extent to all ranks of society. While among the wealthy, probably, some few of the latent diseases might have been discovered during life, those which remain are cases of maladies common to all grades and conditions of men, and which I have found in private post-mortem inspections in sudden death among the middle classes, to be very frequent indeed. In fact, the autopsies of private patients of my own and other medical men lead me to believe that in them the causes of sudden death are very much the same as among the lower classes.

Having observed how commonly pneumonia is present in the bodies of those who have died suddenly, and having been led to investigate as closely as possible all such cases which occurred, I was brought face to face with a series of pathological appearances within the chest, which I had frequently before observed, but of which, till then, I had failed to appreciate the importance, viz. the frequent occurrence, either separately or conjointly with each other and pneumonia, of such conditions as ædema of the lungs, thrombosis within the heart and pulmonary vessels, and pulmonary apoplexy, and the relations they bear to other diseases of the body.

On careful observation of even a few such cases, it becomes plain that some or all of these diseased conditions or their combinations, constitute, in certain diseased or debilitated states of the body, the regular mechanism of death, and the main difficulty lies in assigning to each its true position and importance in this respect. On purpose to facilitate, as far as possible, a searching study of the conditions where each is present, it has been thought better to notice these diseases separately, and to draw up for each a brief table of the cases in which it was found.

Pneumonia.

To commence with pneumonia, which has, since the time of Lacinnee, been known as a frequent pathological occurrence, in the form of what he termed "peri-pneumonia des agonisans," pneumonia of the dying, and also in the form of true inflammatory

pncumonia.

In regard to the different forms of pneumonia to be found in the dead body, and especially in regard to the causes and characters of such, great differences of opinion prevail. Most authorities agree in saying that to the naked or assisted eye of the pathologist the different forms of pncumonia present themselves with characters so identical, that from the appearance of the lung alone it cannot be determined what form of pneumonia was present, and even those who pretend to draw a distinction do it in such a loose and indefinite way, that their definitions may be thrown aside, and it may be assumed that the appearance of the lung is no guide to the nature of the process of inflammation going on in it. Every one familiar with autopsics will agree in this, that the different stages of congestion, red and grey liepatisation, being capable of being assumed by pucumonias of different forms, as from inflammation, from obstruction, or from hypostasis, the altered appearances of the lung tissue are identical in each. And yet the appearances indicate that a difference of cause must have been present, for in one case a single lobe of a lung is found, in what may be called inflammatory pneumonia, with its tissue solidified from exudation of lymph, and vascular and congested in addition, while the pleura or pericardium in its vicinity bears traces of recent and acute inflammation; in a second case a lobe is also found solidified from lymph (with perhaps less evidence of vascularity), and converted into a solid mass up to the very plcura covering it, and the pleura in this case will not so much as be reddened, although its cavity may contain a few drops of serum; while in a third case, a case of hypostatic pneumonia, the consolidation, not limiting itself to a lobe, but occupying more or less the back parts of both lungs, could with difficulty have its locality accurately defined, and shades off gradually and without distinct demarcation into the neighbouring healthy lung. It seems, in other words, as if the pneumonia of the second class were simply a concentrated form of the third class, or hypostatic pneumonia, and as if the inflammatory were merely this pneumonia of the second class, plus the peculiar inflammatory virus, which we do not know save by its effects on the pleura and pericardium, but which makes diseases elsewhere so different, which causes, for example, that the

serum in a case of acute peritonitis will give rise to a virulent poisoned wound when accidentally inoculated, while the fluid in ascites

is utterly harmless.

The term "pneumonia from obstruction" has been applied to some forms of lung inflammation by a recent writer on pneumonia, Dr. Octavius Sturges, who in an admirable paper in 'St. George's Hospital Reports' for 1867, has discussed this subject fully and with great ability.

Dr. Sturges divides pneumonia into four classes.

1st. Pneumonia in debilitating diseases.

2nd. Pneumonia in specific fever, or where some secreting organ is interfered with, *i. e.* in blood poisoning.

3rd. Pneumonia owing to mechanical causes.

4th. Pneumonia from idiopathic lung inflammation.

In his paper on this subject, Dr. Sturges shows that we are, by mechanical means, in a position to imitate the state of hyperæmia and congestion preceding inflammation ('St. George's Hospital Reports,' 1867, p. 219). "Venous obstruction," he says, and he cites "Simon's Lectures" in support of his statements, "however produced will give rise to an exudation which will be serous, or albuminous, or spontaneously coagulable, according as the pressure is less or greater." Quoting also a paper by Dr. Robiuson in the 26th volume of the 'Medico-Chirurgical Transactions,' Dr. Sturges shows satisfactorily that in the stage of fibrinous effusion which has been mechanically produced in the kidneys by obstructing the flow of blood through the renal vein, the difference between the appearances found and those present in inflammation "is more of degree than of kind," and applying the observations and arguments to the lungs, he proves (l. c. pp. 220—221) that a pneumonic infiltration from obstruction is a highly probable phenomenon.

But it seems to me that while quite justified in assuming that there is an obstructive, as distinguished from an inflammatory pneumonia, Dr. Sturges has not made out the same claim to separate the obstructive inflammations, under which head are included, not only those where obstructive heart disease is present, but also those where alterations of the blood, or loss of power of the heart exist, from hypostatic pneumonia; and further, that his fourth class of idiopathic pneumonia ought by rights to include his second class of inflammation occurring during specific fever and interrupted secretion, a class in which, he says, "the lung affection occurs with marked local symptoms, resembling idiopathic pneumonia, with

which, indeed, it may be pathologically identical."

It would seem, on the contrary, more philosophical to class together all pucumonias where the true inflammatory element is present, and which would all be characterised by the sympathy of the system generally with the local disease, as expressed in the accompanying fever, and usually by the local signs, and after death by the element of inflammatory infection of the neighbouring parts, pleura, pericardium, &c.; and this, while freely admitting that the same inflammatory pneumonia, occurring in extremely adynamic subjects, may completely alter its usual appearances and give rise to the typhous or adynamic form so well described by Trousseau

('Clin. Med.,' 1862, Tome I).

In regard to the other class of pnenmonia, of which specific inflammation does not seem to form an element, it is only a forced distinction that can be drawn between the mechanical and hypostatic forms. There is nothing in the appearances or situation of the disease, or in its symptoms, which would justify their separation, unless perhaps that hypostatic pneumonia usually affects both lungs, and especially their lower and back parts; while mechanical pneumonia, on the contrary, is oftener seated in one or more lobes confined to these, and occupying their entire extent.

Dr. Sturges' views of the production of this form of pnenmonia, while decidedly a great advance on what had previously been brought forward, have still something to be added to them; and it is this something which gives a similar meaning to the two last-mentioned classes of cases, and resolves pneumonia of this nature, not so much into a cause of death as into the position of a method or mode of

death, as it appears really to be.

No donbt the weight of the experiments in regard to obstructed circulation producing fibrinous effusion, similar to that occurring in inflammation, is great, but it is not necessary that obstruction be called into account to explain the results. The chief effect of obstruction of circulation is to lessen the rapidity with which the blood flows through the vessels. Beyond effecting this, and a slight amount of increased pressure within the vessels, obstruction can have no effect, and it would seem more reconcileable with facts to attribute the phenomena produced to the diminished rapidity of circulation which ensues. This idea gains strength if it is borne in mind what is one of the chief phenomena of the inflammatory process as observable in the capillaries of a frog's foot. In it the lessened rapidity of circulation soon comes on, plays a very important part, and is quickly followed by exndation of liquor sanguinis, and other changes similar to those which supervene in the kidney, whose rapidity of circulation is lessened by obstruction applied to its voin. Diminished rate of circulation is known to produce edema, and it seems no more than fair to attribute the appearances produced by venous obstruction to the diminished speed of the circulation which is its consequence. That this is true many facts indicate. Serous effusion is usually producible by venous obstruction, as seen in phlegmasia dolens, and is also producible by simply diminished rate of circulation, a fact so well known as to need no proof. It exists

also as the consequence of obstruction to the entrance of arterial blood, as in embolism of a part, where the diminished rate of circulation consequent on the plugging of the artery, produces the ædema characteristic of this occurrence. I have no doubt that in venous obstruction going on to the effusion of lymph, the retarded circulation is the most important factor, and that, although the pressure may also have its influence in producing the exudation, such exudation may occur without pressure and simply from retarded circulation, favoured in some cases by alterations in the composition of the blood. The doctrine of Virchow, that the fibrin of the exudation is the product of the tissues, not of the blood ('Cell. Pathologie,' pp. 154, 367; 'Spec. Path. und Therap.,' Bd. I, p. 75) may also be allowed some weight in the question of the production of these forms of pneumonia.

On these grounds we would attribute all non-inflammatory pneumonias to diminished circulation; and where the disease appears to have selected one particular lobe or locality, to the existence of something diminishing the circulation in that situation more than in

the rest of the lungs.

Pneumonia of this sort occurs in individuals in whom an altered condition of the blood is usually distinctly present as the result of old disease of the kidneys, liver, or heart, or of habits of intoxication, bad nourishment, or of marasmus, old age, &c. In those individuals the lessening of the vital powers is coincident with a diminished rate of circulation and with altered properties of the blood, which reaching a certain stage produce the non-inflammatory pneumonia of the lungs, unattended with any symptoms, and, although the individual seems to die as the result of general debility, pncumonia reveals itself at the autopsy, vindicating its claim to be regarded rather as a mode than as a cause of death. Similarly does the disease originate in individuals the subjects of no enfeebling agency, but who, prostrated by fever, apoplexy, or some other severe malady, have the circulation gradually failing as their vital force becomes exhausted, until, in their last few days on this side of the grave, the circulation has diminished to such an extent as to produce pneumonic alterations in the lungs, alterations to be recognised, in all probability, for the first time on the post-mortem table. The occurrence of pucumonia in combination with other similarly produced modes of death, as cedema of the lungs and thrombosis, as will afterwards have to be explained, strengthens greatly this view of the subject, and I have little doubt that many of our discases, occurring in connection with the tubercular diathesis, and yet showing no tubercular indications in the pathological appearances produced, as the central softening of the brain found in what is falsely termed acute hydrocephalus, are simply similar non-inflammatory tissue alterations occurring in states of retarded circulation, the locality of the disease being determined by some local cause.

The table which has been drawn up of cases of pneumonia embraces all those where pneumonia occurred in the 580 cases of sudden death, and contains, besides the 49 where pneumonia was returned as the cause of death, as being the most important postmortem appearance, 18 others where it was present though subordinate. No attempt has been made to separate the forms of pneumonia further than concerns the stage in which they existed; and to avoid rendering the table too bulky for use, it has been thought necessary to omit mention of its connection with troubles of the kidneys and liver, and to confine the particulars noted to the more interesting combinations with pleurisy, pericarditis, fatty and other heart disease, fluidity and distribution of the blood, &c.

Pulmonary Apoplexy.

The cause of death, next in numerical importance to pneumonia, of which special mention has to be made, is pulmonary apoplexy.

Presenting itself, in its diffuse form, in frequent combination with pneumonia, thrombosis of the heart and ædema of the lungs, its importance is sufficiently demonstrated by the Table IV, where it is shown to have occurred, in the 580 cases, 23 times as the most marked appearance and therefore returned as the cause of death, and 13 times as a subordinate appearance; 36 times in all.

It is not proposed to discuss the subject of pulmonary apoplexy here; I would refer instead to a paper by my father on this subject, published in the 'Brit. and Foreign Mcd.-Chir. Review' for April, 1866, and to the table I have drawn up; but the question of how pulmonary apoplexy is produced is one on which a few words may

with advantage be added.

The way in which pulmonary apoplexy presents itself in many cases is a frequent puzzle to the pathologist, and it—more perhaps than any morbid alteration—is to be found complicating cases where there already exists an evident and sufficient cause of death, or even it may be giving the appearance as if two causes of death were coexisting, and it is sometimes hard to determine which claims to be the most important cause. To take only one instance of this from the table, there are there noted four cases of fracture of the skull in which pulmonary apoplexy was present, and in each of these its extent varied; in one it existed merely as two apoplectic depôts in one lung; in another the whole of the lower lobe of the left lung was consolidated from this cause; in a third the back parts of both lungs were affected; while in the fourth the total extent of both lungs was the seat of the disease, there not existing a single portion of either lung, however small, which was not black, consolidated,

and nearly airless, from this infiltration of blood. This last case. occurring as it did in a man whose assailant was afterwards tried for culpable homicide, left the medical men engaged in the case in a very unenviable fix. The injuries in the head were confined to fractures of the basis cranii, to injuries of the brain, and to effusion of blood among the membranes of the brain, but not abundantly enough to have caused the slightest compression. The man was known to have been in perfect health the moment before receiving the injury. I saw him dead half an hour later, and yet here were two causes of death, each in itself sufficient, and none of which could have existed before the injury was received. The explanation which suggested itself to me was the following, and it may be applicable. to a certain extent, to more of the cases in the table than those where fracture of the skull caused death. In the case just cited the natural mechanism of death after the injury to the brain would be by coma, and hence collection of blood on the right side of the heart and in the lungs, causing congestion of these organs. Now, pulmonary apoplexy is merely an advanced state of congestion, where the blood is infiltrated into the substance of the lung tissue instead of being retained within the vessels. What was the cause which changed congestion into extravasation is not clear; it may have been excessive heart's action, or some local cause seated in the lungs; but even this imperfect explanation removes the difficulties of the case, by converting the pulmonary apoplexy from a primary to a secondary

In the case in the table it occurred twenty-seven times in the male sex, and only nine times in females, or three fourths of the cases being among males, and only one fourth among females.

Thrombosis of the Heart and large Vessels,

Although constituting the cause of death in only fourteen cases, occurs in a much larger number than this, being present in all in

63 cases, or in 10.8 per cent. of the total number.

The phenomena of thrombosis, as studied and elucidated by Virchow and his followers, consist in the loss of fluidity of the blood or of some of its constituents within their proper channels or receptacles, and embrace the results (where any exist) of this coagulation. Thus, so long as the coagulation within the vessel gives rise to no obstruction to the circulation, symptoms of its existence may be entirely wanting, excepting in the case of a portion or the whole of the clot being washed away with the current of the blood and becoming fixed in the next portion of the vascular system whose diameter is too small to allow its passage. In these circumstances the phenomena of plugging of the vessel have been designated by the name of embolism, and the impacted embolus occasions frequently the formation on it of further depositions of coagulum.

The aet of the washing away of a portion of the thrombus is eommonly attended with rigors, and this symptom forms a good diagnostic mark in distinguishing embolism from absorption of septie fluid, which is seldom (if ever) attended with the production of rigors.

Where the original thrombus increases to such an extent as to offer a barrier to the circulation, or where the process presents itself as embolism, or dema of the part supplied by the vessels generally

oecurs.

In the heart and main vessels this process of thrombus formation eonstitutes an extremely eommon method of death, the thrombus being sometimes the main agent in the cessation of life, and some-

times only a subordinate appearance.

In chronic maladies attended with diminished rapidity of circulation, or with an altered composition of the blood, it is but natural to suppose, and the analogy existing in the process of spontaneous cure of ancurism confirms the supposition, that while the constituents of the blood, as already shown under pneumonia, occasionally deposit themselves in the tissues under the forms of serous and fibrinous exudation, such deposition should sometimes take place within the mass of the blood itself. And such deposition of fibrine in the mass of the blood I believe to be the only explanation which our knowledge admits of, of the production of thrombosis of the heart and large vessels in the process of slow and gradual death. The thrombi are usually found, when small, in some part of the organs of eirculation where the blood current can be fairly supposed to be slowest, where there exists something like a side eddy in the stream of the eireulation. Their deposition is more common and more copious on the venous than on the arterial side of the heart and vessels, and they seem to select, in preference to all other localities, the aurieular appendices of the auricles for their first formation. In many cases the thrombus remains limited to the right, or to both aurieular appendices, and is there observed as a soft pale-yellow gelatinous elot, composed of fibrine pervaded and soaked through with serum, and exhibiting, where eut into, a meshwork of paleyellow, slender fibres, with a large quantity of yellowish strawcoloured fluid, mechanically held in their interspaces. The more eentral or oldest parts of the thrombus are paler and a little firmer than the more superficial or last formed parts, yet without anything like an attempt at arrangement into layers, such as is found in the brittle and more opaque lymph lining an aneurism. The thrombus is, in addition, usually firmly connected and interlaced with the unevennesses of the inner surface of the heart, so that a considerable amount of force is requisite to separate and isolate it. The next stage of the disease, where the eireulatory disturbanees favour the increase of the thrombus, seems to be the formation of other thrombi

along the course of the vessels connected with the heart, and in preference along the course of the superior vena cava and its branches. and it is possible to pull out from the interior of this vessel a long vellow clot, whose ramifications indicate that it has been formed in the superior cava, the innominate, jugular, and subclavian veins. The thrombus, however, seems seldom to fill the veins, and merely to exist as a continuous cord lying in their calibre, appearing, from its greater yellowness at one side, to have lain along one of the walls of the set of vessels. Within the head the sinuses are also occupied in part by such a line of yellow fibrinous thrombus. This thrombus appears to retain its position, and to avoid being washed down into the heart by the extent of its ramifications, the tenacity with which its several parts adhere together, and by the lessened force of the circulation to which it owes its deposition. I do not recollect ever having met with an analogous formation in the inferior vena cava. Along the curvature of the arch of the aorta, a similar small thread of thrombus is sometimes found, extending however neither into the arteries of the head and upper extremities nor into the descending aorta, to any distance. Exceptional forms of thrombi are occasionally met with, such as pale and little consistent clots, of the size of a bean, or thereby, which appear to have been floating free in the auricles, and which seem, from their complete and rolled aspect, not to have been anywhere attached. It may be doubted, however, whether their attachments have not been interfered with in opening Thrombi, such as above described, do not apparently become readily washed into the pulmonary artery, the clots found there being usually continuous with those in the heart, as a consequence of a continuance of the growth of the thrombus about to be described. In the more pronounced forms of the disease, the already existing thrombi, those particularly in the auricular appendices, and especially on the right side of the heart, suffer an increase of bulk from continued deposition of fibrine, and still firmly attached to the heart walls, they grow larger and larger until they, in many instances, occupy the whole of the heart's cavities, being firmly interlaced in the auriculo-ventricular valves, and extending into the pulmonary artery so far that, on drawing them out from this vessel, and floating the portion in water, they can be seen as a cast of the minutest ramifications of this artery. The extension of the thrombus into the pulmonary artery appears for the most part to take place by direct continuation of the cardiac thrombus into the vessel, and seldom by the development there of an independent thrombus, since in some cases the thrombus is found to pass from the ventricle only into the main stem of the artery, and ends suddenly in a blood clot; in other and more frequent cases the thrombus fills the main stem and a part of its two primary branches, while in a third series of cases, the casts of all, down to the finest ramifications, are yellow and fibrinous. These thrombi in the heart and pulmonary artery do not distend the eavities in which they lie; even in the most advanced cases, they merely fill them. In a few of the autopsies the pulmonary veins were also filled with thrombi, which were continuous with that in the left auriele; but, as a rule, the development of thrombus on the arterial side of the lungs is very limited indeed, and confined

almost entirely to the auricle and ventriele.

The extensive development of thrombosis is attended with a markedly edematous condition of the lungs, a state usually present to a more or less marked extent in even slight cases, although sometimes it has been found wanting. In this adematous state the lungs are bulky, pitting on pressure, rather heavy and solidified, and from their cut surfaces air and serum can with ease be expressed. In the more marked eases the scrum is clear and yellowish, and the whole pours out in abundance, frothing like champagne; where less or or where the lungs are eongested, the serum is pinkish, tinged with blood.

Such a process as this naturally requires a little time, a few hours or so, for its production; and hence it is much more frequent in gradual deaths, however unexpected they may have been, or however sudden they may seem to the friends and neighbours, than in those where the very mode of death indicates that it must of necessity have been rapid. Out of 98 eases of drowning, it was met with but onee, and in an individual drowned in this wise. He was a farm servant, and had been in bad health for some time. Walking near a pond one day he was taken ill, and falling into it was drowned before he could be reserved. In him the thrombosis may have been forming before he fell into the pond.

The table of cases of thrombosis shows that where it occurred

the death was caused-

44 '	THE OHEECH	·u			
]	14 times	by			Thrombosis itself.
	9 ,,	•			Injuries.
1	10 ,,				Pueumonia.
	1 ,,				Pericarditis.
	3 ',,				Poisoning.
	7 ,,				Exposure to cold.
	1 ,,				Childbed disease.
	ί ,,				Liver disease.
	3				Starvation.
	.) ´´				Brain diseases.
	·)				Meningitis.
	1				Aneurism.
	2 ,,				Apoplexy.
	9		•		Pulmonary apoplexy.
	1		•	•	Erysipelas.
end	1 ,,		•	•	Scarlatina.
CHILL	1 ,,		•		Cotti i attitut

In all which diseases the death would probably have been gradual, while it was found—once in death from suffocation, once in hanging, once in drowning (as mentioned above), and once in fatty heart; and in this case the thrombosis itself was more probably the true cause of death, whilst in the case of suffocation the individual was insensible from drink at the time, and was choked in his own vomit. Thus, out of 63 cases, it occurred only once in death which must

of necessity have been sudden.

An altered and impoverished state of the blood appears to be an almost universal and very necessary condition in the formation of thrombosis. In young children, where the infrequent occurrence of chronic diseases leads to infrequent occurrence of impoverished states of the blood, thrombosis as above described is a rare phenomenon indeed. I have seen it once in a child three months of age, and in a case occurring since these tables were drawn up, once in a new-born child, where it existed as a rounded, complete, very soft, little consistent, and apparently unattached clot in the cavity of the right auricle. In all the other cases where it occurred the individual was above the age of three months.

The analogy of thrombosis as above described with that occurring elsewhere is seen from the existence of an ædematous state of the lungs, which was noted as present in 23 out of the 63 cases, while

27 times the lungs were tolerably healthy.

Finally, viewed in the light of being merely a method of death, thrombosis of the heart and large vessels is, as would be expected, frequently complicated with diseased states of the lungs other than cedema. In the table it will be found to have been coincident—

With	pneumonia in		•		17	cases.
	ædema of lungs in				2 3	33
"	pulmonary apoplexy in	1 .	•		6	"
	tolerably healthy lung	s in		•	27	"
"	fatty heart				12	"

It would be interesting to know, in those who recover after such fibrinous thrombi have been deposited, what becomes of them, and whether they are always reabsorbed. It is possible, in some cases at least, that they might during recovery give rise to sudden death from being washed away and impacted in the pulmonary artery or elsewhere, producing in this manner the phenomena of embolism.

Œdema of the Lungs.

In Table VI (of edema of the lungs) all cases where this is noted as having been present are included, with the exception of the cases of drowning in which it occurred, these having been omitted as irrelevant.

It will be perceived from this table that it usually exists along with some other important pathological appearance, but that some-

times it is itself the most important change observable after death, and it would be refusing eredit to the evidence of our senses to deny that it occasionally exists in the dead body as the only morbid phenomenon, and is, therefore, in itself an idiopathic cause—or rather mode—of death. It is connected, like pneumonia and thrombosis, with debilitated states of the system, and in the remarks upon pneumonia its iudependent existence will be seen to be capable of being accounted for by diminished circulation existing in these debilitated individuals.

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